

**NATIONAL AERONAUTICS AND SPACE ADMINISTRATION
LYNDON B. JOHNSON SPACE CENTER**

**JUSTIFICATION FOR OTHER THAN FULL AND OPEN COMPETITION
PURSUANT TO 10 U.S.C. 2304(c)(1) and
FEDERAL ACQUISITION REGULATION 6.302-1**

1. This document is a justification for other than full and open competition prepared by the NASA, Johnson Space Center.

2. The nature and/or description of the action being approved:

This is a sole-source award to Flagsuit LLC to acquire their products for the Space Suit Systems Branch. This justification seeks to justify the limited sole source status to Flagsuit LLC. The deliverables/products require expert suit hardware experience in the fabrication, maintenance, documentation, and operations of the Flagsuit space suit gloves. The deliverables also require a limited amount of space suit engineering expertise for the hardware design, usage, documentation and training for the customer. The services included in the Statement of Work include the following: design improvements upon the existing Flagsuit space suit glove bladder and restraint assembly and fabrication of two pairs of improved Flagsuit glove bladder/restraint assemblies.

3. Description of the supplies or services required (including the estimated value):

The deliverables require expert experience in the fabrication, maintenance, documentation, and operations of the Flagsuit LLC space suit gloves. The value will be \$159,833 for the contract period ending on July 11, 2011. The value for this period of performance includes sufficient support personnel for all hardware, documentation, travel, shipping and training outlined in the Flagsuit Glove Bladder/Restraint Assembly Statement of Work.

4. Statutory authority permitting other than full and open competition:

The statutory authority permitting other than full and open competition for this requirement is 10 U.S.C. 2304(c)(1). A noncompetitive procurement is supported by the provisions of FAR 6.302-1(a)(2), "only one-responsible source and no other supplies or services will satisfy agency requirements."

5. A demonstration that the proposed contractor's unique qualifications or the nature of the acquisition requires use of the authority cited:

The Flagsuit space suit glove, as defined in the Flagsuit Glove Bladder/Restraint Assembly Statement of Work, is built by Flagsuit LLC, and Flagsuit LLC personnel have extensive experience with the fabrication of Flagsuit gloves.

Flagsuit, LLC uses a patent pending joint technology in the gloves which decreases torque in the finger joints, thus providing for less hand fatigue and better overall mobility. There is no other single source that could provide the required hardware because the Flagsuit joint technology is one-of-a-kind, and is the only design that can meet the requirements for the patented joint technology (12/150,641 "Glove Reinforcement And Method Thereof" and 61/412,431 "Torque Compensating Pressure Suit Joint"). NASA has no data rights to the Flagsuit glove design, and thus cannot replicate nor provide specifications to an alternate vendor.

6. Description of the efforts made to ensure that offers are solicited from as many potential sources as practicable:

A synopsis for this effort was issued on the NASA Acquisition Internet Service (NAIS) on December 21, 2010. The synopsis closed on December 30, 2010. One response was received from David Clark Company, Inc (DCCI). While DCCI does have extensive experience in the design, development and evaluation of EVA gloves; they do not own the rights to the patented technology required under this contract and are unable to reproduce the technology.

7. Determination by the Contracting Officer that the anticipated cost to the Government will be fair and reasonable:

The contractor's proposal will be evaluated and negotiated to obtain a fair and reasonable price based upon market research and historical prices paid under previous contracts.

8. Description of the market survey conducted and the results, or a statement of the reasons a market survey was not conducted:

A cursory market survey was performed. It is known by the requesting organization (EC5, the Space Suit and Crew Survival Systems Branch) through technical conference attendance, reviews of technical journals, etc., that the primary U.S. companies that are currently performing space suit glove design are ILC Dover, David Clark Company, Flagsuit LLC and Final Frontier Design. Of these, only Flagsuit LLC owns the design and data rights to the required joint technology. Thus, NASA cannot replicate the design nor provide specifications to an alternate vendor.

9. Other facts supporting the use of other than full and open competition, such as:

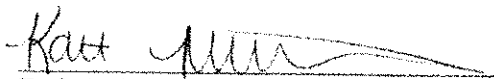
The contemplated action is in support of Enabling Technology Development & Demonstrations (ETDD). In 2007, Flagsuit LLC developed a space suit glove for the NASA Centennial Challenges Program which features a nonconventional joint design aimed at increasing dexterity while reduced hand fatigue. The work contained in the contemplated action builds on work performed by Flagsuit LLC for the NASA Centennial Challenges Program.

10. A listing of sources, if any, that expressed in writing an interest in the acquisition:

This Agency will continue to remove or overcome any barriers to competition before any subsequent acquisition for these services are required. To do so, the procurement offices will coordinate with the COTR to ensure any needs for publicizing formal RFI's and sources sought synopses are met. These postings will enable the COTR and technical community to gather crucial information regarding the options and available sources for the future testing needs of the Agency. The technical offices and COTR will continue to monitor industry capabilities by attending related seminars and industry forums. The COTR will also continue to review relevant technical journals, Government and commercial databases, and Internet resources for relevant information.

Technical Officer:

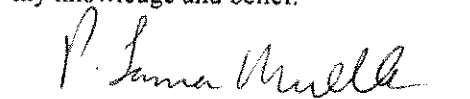
I certify that the supporting data presented in this justification are accurate and complete.


Technical Monitor

1/3/10
(Date)

Contracting Officer:

I certify that this justification is accurate and complete to the best of my knowledge and belief.


Contracting Officer

1-4-10
(Date)